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Secretary for
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Air Resources Board

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Edmund G. Brown Jr.
Governor

February 20, 2015

Mail-Out # MSC 15-03

TO: All Interested Parties

SUBJECT: Public Workshop to Discuss Proposed Rulemaking to Provide Certification and Aftermarket Part Approval Flexibility for Innovative Medium- and Heavy-Duty Engine and Vehicle Technologies (Innovative Technology Regulation)

The California Air Resources Board (ARB) invites interested parties to participate in a public workshop on March 9, 2015, in El Monte, California, to discuss development of a proposed regulation to provide certification and aftermarket part approval flexibility for innovative medium- and heavy-duty engine and vehicle technologies. The intent of the proposed regulation would be to encourage manufacturer development and early market launch of the advanced truck and bus technologies California needs to meet its long-term air quality and climate goals.

The details of the public workshop are as follows:

Date: March 9, 2015

Time: 1:00 p.m. – 4:00 p.m.

Location: California Air Resources Board
Annex 4 Auditorium
9530 Telstar Avenue
El Monte, California 91731

Staff Contact: Joe Calavita, (916) 445-4586
icalavit@arb.ca.gov

If you are unable to attend in person, the meeting will also be available via teleconference and GoToMeeting. To participate by teleconference, dial (888) 847-7597, and enter participant code: 38207. If you choose to participate via the GoToMeeting, please register at the following website:
<https://attendee.gotowebinar.com/register/3399148258161604866>.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

Staff will present a brief concept paper at the workshop to help focus the discussion and encourage public feedback. In the week prior to the workshop, the concept paper will be made available via the ARB website at <http://www.arb.ca.gov/msprog/itr/itr.htm>.

Background: The South Coast and San Joaquin Valley air basins are the only two areas in the nation in extreme non-attainment of the national ambient air quality standard for ozone. Meeting the federal ozone standard will require significant oxide of nitrogen (NOx) reductions in many parts of California, including 75 percent additional NOx reductions beyond what is projected to be achieved by existing regulations in the South Coast by 2031. In addition, California Executive Order S-3-05 sets a greenhouse gas emission reduction target of 80 percent below 1990 levels by 2050.¹ To meet these multiple long-term air quality and climate goals, California must accelerate development and deployment of the cleanest feasible technologies for all vehicle and equipment sectors, with broad deployment of zero- and near-zero emission cars, trucks, and buses.

California has employed a suite of strategies to significantly reduce mobile source emissions over the years, including: progressively lower engine and vehicle emission standards to reduce emissions from new vehicles; certification, on-board diagnostics (OBD), Smog Check and other requirements to ensure emissions remain low in-use; fleet rules and financial incentives to clean up the existing legacy fleet; and, most recently, incentive funding to accelerate demonstration and deployment of the next generation of advanced vehicle and equipment technologies.

The Innovative Technology Regulation is intended to provide defined, near-term ARB certification and aftermarket part approval flexibility to help facilitate market launch of the next generation of truck and bus technologies. ARB's existing certification and OBD requirements provide a critical and effective mechanism for ensuring a vehicle's expected emission benefits are achieved and maintained for a vehicle's useful life. However, ARB's engine and vehicle approval paradigm, geared towards traditional technologies, may deter some manufacturers from developing promising new technologies which are uncertain to achieve market acceptance. One option being considered by staff would provide tiered ARB certification and OBD requirements for an innovative technology, providing targeted flexibility at market launch and early technology deployment stages, and reverting back to full ARB approval requirements once the technology achieves a market foothold. Specific certification and OBD flexibility provisions should provide manufacturers with a defined, predictable, and practical ARB approval pathway, while preserving ARB's overarching objective to ensure expected emission benefits are achieved in-use.

This regulation would work synergistically with ongoing and anticipated State and federal technology advancing regulations. For example, a more flexible certification

¹ Schwarzenegger, A. (2006) Governor's Executive Order S-3-05.

pathway could encourage technology diversity and early deployment of technologies used to comply with Phase 1 and Phase 2 greenhouse gas emission standards for medium- and heavy-duty vehicles, or increase manufacturers' willingness to develop an engine meeting ARB's optional low NOx emission standards for heavy-duty engines. Staff anticipates the regulation could also increase the number and diversity of promising technologies eligible for ARB's Air Quality Improvement Program, the California Energy Commission's Alternative and Renewable Fuel and Vehicle Technology Program, and other technology-advancing incentive programs.

Finally, ARB staff is also evaluating whether additional flexibility in the certification and/or aftermarket part approval procedures is also needed for innovative light-duty vehicle technologies. Stakeholders involved with light-duty vehicle technologies are encouraged to listen to this workshop to familiarize themselves with the types of issues of concern. Stakeholders with comments regarding the need for a corresponding light-duty vehicle regulation should contact Ms. Shobna Sahni, Air Pollution Specialist, at (626) 450-6104 or by email at ssahni@arb.ca.gov.

Special Accommodation. If you require a special accommodation or need this document in an alternate format (i.e., Braille, large print), please visit <http://www.arb.ca.gov/html/ada/ada.htm> for assistance or contact the Americans with Disabilities Act Coordinator by telephone at (916) 323-4916 no later than 10 business days before the scheduled meeting. If you are a person who needs assistance in a language other than English, please visit <http://www.arb.ca.gov/as/eeo/languageaccess.htm> or contact the Bilingual Coordinator by telephone at (916) 324-5049 no later than 10 business days before the scheduled meeting. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

Consecuente con la sección 7296.2 del Código de Gobierno de California, una acomodación especial o necesidades lingüísticas pueden ser suministradas para cualquiera de los siguientes:

- Un intérprete que esté disponible en la audiencia;
- Documentos disponibles en un formato alterno u otro idioma;
- Una acomodación razonable relacionados con una incapacidad.

Para solicitar estas comodidades especiales o necesidades de otro idioma, por favor llame a la oficina del Consejo al (916) 324-0342 o envíe un fax a (916) 327-8524 lo más pronto posible, pero no menos de 10 días de trabajo antes del día programado para la audiencia del Consejo. TTY/TDD/Personas que necesiten este servicio pueden marcar el 711 para el Servicio de Retransmisión de Mensajes de California

ARB will use the Innovative Technology Regulation email list to notify stakeholders of updates to the regulatory proposal and of additional opportunities for public input throughout the rulemaking process. To sign up for the Innovative Technology

All Interested Parties

February 20, 2015

Page 4

Regulation email list, please visit:

http://www.arb.ca.gov/listserv/listserv_ind.php?listname=itr

We welcome and encourage your participation in this effort. If you have questions regarding either the workshop or the proposed Innovative Technology Regulation, please contact Mr. Joe Calavita, Staff Air Pollution Specialist, at (916) 445-4586 or by email at jcalavit@arb.ca.gov, or Mr. David Chen, Manager of the Advanced Emission Control Strategies Section, at (626) 350-6579 or by email at david.chen@arb.ca.gov.

Sincerely,

/s/

Erik White, Chief
Mobile Source Control Division

cc: Mr. David Chen
Manager
Mobile Source Control Division

Mr. Joe Calavita
Staff Air Pollution Specialist
Mobile Source Control Division